# THE PLOTTER

CLACKAMAS COUNTY AREA T/S USERS GROUP NEUSLETTER

VOLUME 3, NUMBER 3

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#### MEETING

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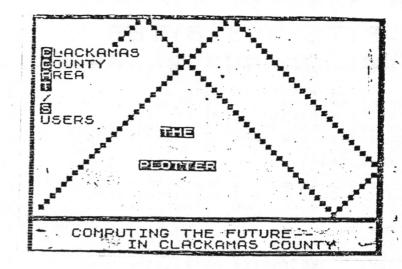
The Feb. meeting of CCAT/5 was not much of a meeting. As we did not have enough members present a quarum, we did not have for business meeting but instead sat around and exchanged info and ideas. There were about 8 hearty souls who showed up despite the weather. We were sorry more could not make it, but not have wanted anyone but we Monfq not have wanted anyone to take any chances with snow or ice. We hope to see many of you at Because March meeting. nfnot having a business meeting, will not have our Secretary's Secrets column this issue.

Our March meeting will be held:

on: Thursday, march 7th at: 7:30 P. M. in: COMMUNITY ROOM FAR WEST FEDERAL SAVINGS O. C. SHOPPING CENTER

FROM THE CHAIRMAN'S COMPUTER DICK WAGNER

It is too bad that so many members missed the Feb. meeting. We had a good program lined up. Maybe part of it can be repeated later.



I had the pleasure of testing 2 programs at the meeting. Both by a Jr. member. Good games that should be shared by publishing in the PLOTTER.

have successfully SAVEd of PENETRATOR on mic microdrive and will show how it done at a future meeting. wife says that I only did it is My be cause it can'tbe done. Maybe she is right. But then my grandson 30+second will appreciate a loading time once starts. Take Will the program starts. I also ta delete the screen I also tailored it to Picture during loading.

I probably will miss the March meeting, must take a vacation now and then from retirement.

# WHAT YOU'LL FIND -IN THIS ISSUE-

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### ????????????????? BITS and BYTES

# BITS and BYTES

Here we are again with all the news that we have room for. If there are items that we have missed that you think should be printed here, why not let us know and we will let the world know about it.

#As you know, the A & J Microdrive 2000 is out and about and if the reviews mean anything, they are working out quite well. One thing that you may not know about the new drive, if that it is set up to receive a chip that adds a centronics parallel printer I/F to the drive I/F. The new kit is to be availible the first week in March. If you have any questions about it, call uour local authorized dealer, RMG Enterprises, 655-7484.

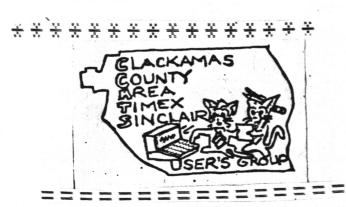
\*If any of you are now using the Spectrum ROM and have need of software for it, the best place to order these items is:

Curry Computer 5344 Banff Glendale, AZ 85**0**36 (602)978-29**0**2

They are good people and until your local dealer starts to carry these products. (See the ad elsewhere in this issue.)

#For those of you who are hungry for as much information as you can get about T/S products and services should be aware that there if a lot of availible info in the newsletter section of our library. These are there to be checked out for a week at a time for all paid-up members.

#You are probably aware of the write-in campaign to Okidata regarding the Okimate 10 printer and how we might get them to produce an I/F for Timex computers. But, have you seen the new one? The Okimate 20. A letter qyality, 100 color, 24 element print head, 240 word per minute, \$258 printer. (And still not for our machine!)



#Several of our members have ordered the Spectrum ROM chipss from England. If anyone wants to order one or more parts and/or software for the Spectrum, please contact Rod Gowen at 655-7484. With an order for 6 chips, the cost per chip falls around \$10 each. That includes a share of the phone call and freight.

#NOTE: Our mag and nl library now has an index. Our thanks to Dennis Jurries for his time and effort in getting this rather large task accomplished. If any of you have Profile 68 and would like a copy of the Index, bring your copy of Profile to the meeting and run a copy. If you want a hard copy, let us know and you may get one for the cost of the copy, about 20 cents.

\*If any of you have the Microdrive and have run into any trouble converting your programs to run on wafer, just call Rod Gowen 655-7484 or Dick Wagner 266-4712. They will be glad to help.

#Soon we will have the tape library indexed as the main library is now. Give us a little time.

\*We have heard that Executive Workshop, owned by our own Sec., Vince Lyon, has a new catalog out. Call him to see how to get your free copy. 771-8554

# A NEAT TRICK

A TRICK FOR SAVING WITH T/S1000 Dick Wagner

This suggestion is from the OCT. 1984 issue of the news-letter TIMELINEZ.
CPT Charles R. Byler suggests this routine: for SAVEING autorun MC programs just ENTER FAST and then RAND USR 836, and then PLAY to LOAD the tape. Ends with C/Ø. The program listing is displayed on ENTER so you can find the SAVE line. Copy to a new tape with GO TO line number and ENTER.

RAND USR 835 initiates the LOAD command routine at Hex 344

in ROM.

I tried this with Flight
Simulator and it worked.

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PRODUCT REVIEW ΦΦΦΦΦΦΦΦΦΦΦΦΦΦΦΦ

# GESSO 2068 CARTRIDGES

by Dennis Jurries

Bob Orrfelt has done wonders in his resurrection of the 2068 While the programs cartridge. on the two sample cartridges that I have tried are very simthey do demonstrate the use ple the cartridge to store and programs. Bob will soon, to use programs. my understanding, have a eprom programer available that will allow the user to load a basic program into their computer and thus program the eprom. Loading Loading of a program is as simple as inserting the cartridge into the cartridge port, turning on the turning on the cartcomputer, turning on the cart-ridge by throwing a switch, and pressing NEW and ENTER. The program is instantly loaded and running.

The switch on the cartridge is very handy if you wish to transfer the eprom program into RAM and view it. To do this insert the cartridge making sure that it is switched in the off position. Turn on the computer and type in the following program (you can not enter any pro-gram lines while the epromis on or the eprom has been RUN and

stopped).

1 FOR n=32768 TO 40959 3 OUT 244,16: LET x=PEEK n 5 OUT 244,0: POKE (n+16384),x NEXT n STOP 10 FOR n=49151 TO 57343
20 LET x=PEEK n
25 IF n=49161 THEN PRINT x; LET
n=n+2: GO TO 40
30 IF x=13 THEN PRINT : LET n=n+
2: PRINT PEEK n; LET n=n+2
34 IF x=14 THEN LET n=n+5
38 IF x<>13 AND x<>14 AND x>5
AND x<>239 AND x<>20 THEN PRINT FOR n=49161 TO 57343 CHR\$ X; 40 NEXT n

# 

Turn on the cartridge and RUN the t program. The program will stop at line 8. Turn the cartridge off. Type GO TO 10 and ENTER. You will see the BASIC program that was on the cartridge (the line numbers may be in error due to something in the second half of the short program that you typed in).

To get your EPROM cartridges

you can contact you local distributer or Bob Orrfelt at GESSO PRODUCTS, 3436 Bay Road, Redwood City, CA 94063, telephone (415)

369-9136.

# FROM THE FDITOR'S DESK-

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We get quite a few newsletters each month and they are all worth looking at. However, a few stand out for both the quantity and the quality of their publications. and the quality of their publications. We do not have the room here to name them all, but among the best are: ZX WORLD NEWS BULLITIN, L.I.S.T., SUM, TRIANGLE UG, and SINCUS. They are all good for various reasons. Sum has a very nice looking magazine format, L.I.S.T. puts in a lot of usefull technical data, TRIANGLE and SINCUS give us a lot of user news and problem solvers and ZX WNB keeps us up to date on the world news about the control of the to date on the world news about are priveliged to see each month, are a very necessary part of T computing. We want to here and now send our thanks to all of the people out there that work very hard each time they put out an issue. We know the time and effort involved, as we are in the same position.

> It comes back to one very important problem. We are sure portant problem. We are sure that the other editors out there will agree with us when we say that the BIGGEST problem is getting people to contribute to the effort. If the editor has to do the entire job, there is a point at which it all gets to be too much and then another newsletter bites the dust. We rannot afford bites the dust. We cannot afford to loose even one of these publications. We can only hope that these newsletters, and the groups for which they are printed, get as much from our small endeaver as we get from them.

Feel free to reprint what you find useful.

# ZX/TS

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This month we have several programs and routines for you to make use of. We hope that you find something that suits you.

These come from several people; Dennis Jurries, Jack Armstrong and Dick Wagner.

#### \* \* \*

A MC LOADER PROGRAM FOR T/S 1000 Dick Wagner

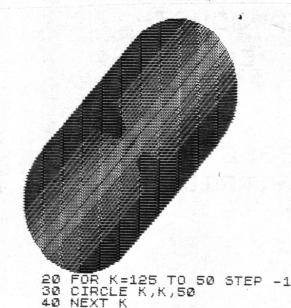
This machine language loading Program for loading REM lines is Used in Gordon Young's article "Build Your Own Spreadsheet" in SYNC Jan/Feb 84. The method provides for entering the MC, one at a time, into a table 5 column across, left to right. The Mc number can be edited when first displayed, and then again in the table (last line only and not the 6th column). The MC listing scrolls so you have unlimited display space.

It is possible to SAVE the REM listing while in process! The LOADed MC listing (incomplete) LOADed MC continued until finished. ъ€ If STOP is used before finishing any further input starts back at beginning. Accordingly you the

cannot see characters going into REM until finished.

If you have a different column count than 6 then change 9935, 9940 & 9975. The M<26 assures loops continue and when M>26 the loop stops on the 6th input. The M+5 and M-5 allows for 5 inputs of 3 characters and 2 spaces each plus the last 3 characters. See Gordon Young's article for complete details. 16514 is the address for the first byte after REM. This program is for 60 rows of data in 6 columns. This pro-

columns. 9900 LET N=15514 9905 LET M=0 9910 INPUT A 9915 IF A>300 THEN GOTO 9960 9920 POKE N.A 9925 PRINT AT 20,M;A 9910 9930 LET N=N+1 LET M=M+5 9935 IF IF M<26 THEN GOTO 9910 LET M=0 9940 9945 SCROLL 9950 9955 GOTO 9910 IF A>555 THEN GOTO 9999 IF A=555 THEN GOTO 9990 9960 9965 9970 LET N=N+1 IF M<26 THEN LET M=M-5 PRINT AT 20,M;" " 9980 GOTO 9910 SAVE "ASSEMBLER" 9985 SAVE GOTO 9990 9910 9995 STOP



\* \* \*

BORDERS ON THE 1000 &2068 Dick Wagner

Enhance your program menu with borders. To eliminate a lot of calculating for location, select the top border PRINT AT as 2 line numbers less than your menu top line and the bottom border 2 lines lower than the menu last line. The side borders may conveniently be at 1 & 30, if you need the space, Ø & 31 Use the subroutine example for a menu format from lines : to 8.

For the 2068: 1000 FOR N=1 TO 30 1010 PRINT AT 1,N; CHR\$ 131: NT AT 10,N; CHR\$ 140 For PRINT 1020 NEXT 1030 FOR N=1 TO 10 1040 PRINT AT N,1; CHR\$ 133: PRINT AT N, 30; CHR\$ 138 1050 NEXT N

If you are more comfortable using characters look up the character codes on page 242,3 of the manual and substitute, bracketing the character in quotes. The particular line combination was selected so Combination was selected so corners would fill in property. For the 1000:
Change the CHR\$ as follows-131 to 3; 140 to 131; 138 to 5. Where: is use in lines 1010 and 1040 just break the lines and start with new line numbers 1015 and 1045.

# Entering and Recalling Text in Machine Code

by Dennis Jurries

This subroutine will allow the user to enter up to 277 characters into machine code and recover them at will. The routine consists of four parts. The first part is the machine code loader program.

10 FOR x=55501 TO 55533 20 READ z: POKE x,z 30 NEXT x 40 DATA 62,0,205,48,18,225,70, 35,229,33,183,215,126,35,254,128,56,250,16,248,126,35,254,128,20

RUN the above program then DELETE it. The second part consists of six lines that allow the text you input into machine code to be recovered.

10 FOR x=1 TO z 20 POKE 55533,x 30 RANDOMIZE USR 55530 40 PAUSE 0 50 NEXT x 60 STOP

The third part of the routine allows the user to put text into machine code. Once the user puts the text in and tests it then this part may be deleted.

100 LET z=1: LET j=55224: LET a #="" 110 PRINT "Input text (limit 32 Characters if you want to print text on the 24th line only). Press enter when finished with text."

120 PRINT
130 GO SUB 300
140 INPUT a\$
150 IF LEN a\$>=55500-j THEN PRI
NT AT 0,0; "Text too long. Input
text.": CLS: LET j=j-LEN a\$: LE
T Z=Z-1: GO TO 110
160 FOR i=1 TO LEN a\$
170 POKE j,CODE a\$(i)
180 TE :/EEMO OND i-1EN a#

180 IF j<55500 AND i=LEN a THE N POKE j+1,128
190 IF j<55500 AND i=LEN a THE N LET j=j+1
200 If j<55500 THEN | FT :-:-

200 If j<55500 THEN LET j=j+1 210 NEXT i 220 LET z=z+1 230 GO SUB 400 240 LET z=z-1 250 STOP

300 PRINT "TEXT #";z;'" ";277 -LEN a\$;" characters remaining." Use the POWER within your reach!



\* \* \*

310 RETURN
400 PRINT
410 PRINT "More text? (y/n)"
420 PAUSE 0
430 IF INKEY\$="y" OR INKEY\$="Y"
THEN CLS : GO TO 110
440 RETURN

The above is set up to print on the 24th line. Several different messages can be run if you add a line, 45 CLS. If you wish to print text from the top of the page then POKE 55502,2. To change back to the 24th line POKE 55502,0.

The following is the OP CODE for the machine code routine entered in part one above. This is the forth part of the sub-routine.

55501 LD A,0 55503 CALL 4656 55506 POP HL LD B, (HL) 55507 55508 PUSH HL 55509 55510 LD HL,55223 55513 LD A,(HL) INC HL 55514 CP 128 JR C,5 55515 JR 0,55513 DUNZ 8,55513 55517 55519 LD A, (HL) INC HL 55521 55522 CP 128 55523 RET Z RST 16 55525 55526 55527 JR 55521 55529 RET 55530 CALL 55501 55533 01 55534

# NOTICE

Just a quick note to let anyone interested know that Dennis Jurries will be giving a short talk on the manufacture of silicon crystal and the making of the wafers that make our computers possible. It should be very interesting. Hope to see you there.

9999999999999999

# ARTICLE 2222222222222222

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## GALIFREY II BBS

by Dennis Tomlin

The Galifrey II BB5 (GAOF) has given us a special space on thair fantastic BB5. Of all the local BB5, GALF offers the larglocal BBS, GALF est variety of services available. Best of all, IT'S FREE!!!

To access this system. DIAL 284-0477 No control character is needed to LOGON, simply follow the prompts.

To list all of the services available on this system would take too long, so all I want to say is LOGON and HAVEFUN exploring this BBS.

Oh, by the way, be sure to thank the SYSOP for giving us T/S USERS our own "Room".

## HARDWARE REVIEW \*\*\*\*\*\*

ZEBRA JOYSTICK ADAPTER DICK WAGNER

The joystick adapter plugs into the rear port of the TS 1000 computer. This provides a 9 pin jack for standard ON-OFF type joysticks like 8055 and ATARI. It also extends the computer port. The device is small and provides the stick connection on the left side.

A short machine code program is provided to add to programs as USR 16514 runs the control. USR 16514 is direct program substitution for INKREY\$ as in: 1000 IF USR 16514=4 GO TO xxxx The number to make USR equal to will be 1,2,4, or 8. This is the same system used on the 2068 as 1=UP, 2=DUN, 4=LEFT & 8=RIGHT, and 3dd 16 for FIRE If your If Aont and add 16 for FIRE. Program uses diagonals add 5, 6, , & 10 where these numbers are the sums of the adjacent points. The easiest program method

uses 1 REM to store the machine code. If you are shakey on this the pamphlet takes you thru it. This is also a step toward using

# 

# SOFTWARE RFUIEW

I thought it would be a good idea to give my evaluation of program I odered from Alan Pattison of Olympia, WA. The name of the program is MONEY MANAGER. It is what I beleive to be an excellent program for knowing excellent program for household records or a small nousehold records or a small business. I have been using the 1000 version for about two years now and have been very pleased with it.

This program and other programs are avalible on tape with full instructions from Alan for the total price of \$9.00 for the 1000 or the 2058.

Alan has been most helpfull

to me in answering any questions
I had, all he asks is that you
send a SASE with your inquiry.
MONEY MANAGER lets you enter noner manager lets you enter the number of incomes and exppenses you want and to give them the titles you want, like FOODRENT-PGE-MISC and SALARY-GIFTSDIVIDENDS or any name you wish to give them. It is pre-programed for SAUINGS BAL., CHECKING BAL
STOCKS, MISC. ASSETS, MORTGAGE.
I feel it is a very useful

I feet it is a very usefut gram for keeping a running program for account of your household budget

item by item. With this program you can at anytime see just what has been spent on any item or what source your income and how much it was.

It has the ability to SAVE by each month and auto VERIFY. For my wants and needs it

an excellent program.

BOB EVANS

ALAN PATTISON 3422 FRENCH LOOP NW OLYMPIA,UA 98502 Ph. (206)866-1492

HARDWARE REVIEW -------------

> -A&J MICRO DRIVE-DICK WAGNER

A bit of experimenting with this interesting device for the 2068 computer has brought out several operating ideas that may tempt some of the readers to try their own investigating when they get this add-on.

How do you know where the tape beginning is when it is endless? After formatting as per instructions the device is at started splice end. For getting short program like 1 = "@1,-". This wastes enter and SAVE file but there are 8 left. Now every loop of the tape will dise- and you can keep tabs on play tape. As programs are added the can pick up @- and learn how UOU file works. the

Before starting a program or loading from regular tape just use LOAD"@-" and position the tape at program 1, which is 1 REM. Now a SAVE will start at the end of the highest file number in MICR DRIVE by skipping over lower numbers. The files in between 1 and your number will be passed over but not erased. File names will be displayed.

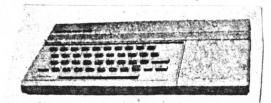
tape must be Because each formatted before use it seems adviseable to do this to all before getting started. Using my example of @- as file 1, note this on each microwafer you will know they are ready you remove Also, use. i f microwafer after adding the little 1 REM progr<mark>am</mark>, the tape the next SAVE is positioned for so it doesn't need to make a full pass. Likewise by using the same system. LOAD "@-", the same system, LOAD fore removing the wafer each time. you are ready to call particular program with least amount of running particular time.

Note that there is a dust shield on each wafer at the inserting edge. This must be at the most left or closed position to permit insertion into the loading slot. This shield is forced to the closed position as the wafer is withdrawn.

By now you will realise that the MICRODRIVE is very different from our cassette players. How about speed? The manual says 10 times faster. There are 5 sizes of wafer capacities, ranging from 14K to 85K. Looping time varies from 12 to 75 seconds. This averages to about 1195 byte of file per second! My test was

1267 bytes.
Short wafers would be prefered as many times a full loop will be requied to access a desired file, and add to this the file length. Using my implanted 1 REM program, you are less than 1 second away from the tape

beginnig point.



# CLASSIFIED ADS

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# GOOD ONE!

I must say a few words about one of the newer T/S suppliers on the scene. The Plotter has a the scene. column that lets us know if a vendor does not treat us well.
It must also let us know if
there are exceptionally good vendors out there.

You may have read in this news-letter about the problems we were having with a company called RESEARCH SERVICE LABS of Oklahoma City, OK. We had ordered an EPPROM PROGRAMMER from them and they had left out a lot of info that would have made our decision as to whether or not to order the unit in the first int place easier.

I would like to report here and now, that this is one company that is really serious about serving the T/S Users every—where. After a couple of exchanges of letters I decided to cancel all of the products that I had ordered, a total of \$246 worth. After sending the Epprommer back to them, I waited for my refund. After three weeks I received a box that Uset back to them. I was all set ped back to them. I was all set to be upset with them until I opened the box and found not only the refund that I had requested, but also a printer I/F at no cost! You can imagine how suprised I was and still am!

I can only say that in the event that I needed any of the product line that this company sells, I would not hesitate to order from would not mesitate to order from them. I beleive that they are really trying. These are the kind of ppeople that we MUST support. If we do not, what is to encourage other prospective 



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